

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2608	(transfer\$4 convey\$4 move\$3 movable moving translat\$4 carry\$4 carri\$4).clm. and (wafer substrate semiconductor workpiece).clm. and (pressure atmospheric vacuum).clm. and (sens\$3 detect\$4 observ\$4 measur\$4).clm. and (align\$4 displac\$5 orient\$4 orientation).clm.	US-PGPUB; USPAT	OR	ON	2007/09/28 17:40
L2	5843	(transfer\$4 convey\$4 move\$3 movable moving translat\$4 carry\$4 carri\$4).clm. and (wafer substrate semiconductor workpiece).clm. and (pressure atmospheric vacuum).clm. and (sens\$3 detect\$4 observ\$4 measur\$4).clm. and (align\$4 displac\$5 orient\$4 orientation position\$4 location\$4 locat\$5).clm.	US-PGPUB; USPAT	OR	ON	2007/09/28 17:41
L3	3770	(transfer\$4 convey\$4 move\$3 movable moving translat\$4 carry\$4 carri\$4).clm. and (wafer substrate semiconductor workpiece).clm. and (pressure atmospheric vacuum).clm. and (sens\$3 detect\$4 observ\$4 measur\$4).clm. and (align\$4 displac\$5 orient\$4 orientation position\$4 location\$4 locat\$5).clm. and (method step).clm.	US-PGPUB; USPAT	OR	ON	2007/09/28 17:41
L4	99	(transfer\$4 convey\$4 move\$3 movable moving translat\$4 carry\$4 carri\$4).clm. and (wafer substrate semiconductor workpiece).clm. and (atmospheric and vacuum).clm. and (sens\$3 detect\$4 observ\$4 measur\$4).clm. and (align\$4 displac\$5 orient\$4 orientation position\$4 location\$4 locat\$5).clm. and (method step).clm.	US-PGPUB; USPAT	OR	ON	2007/09/28 17:42
L5	158	(transfer\$4 convey\$4 move\$3 movable moving translat\$4 carry\$4 carri\$4).clm. and (wafer substrate semiconductor workpiece).clm. and (atmospheric ambient).clm. and vacuum. clm. and (sens\$3 detect\$4 observ\$4 measur\$4).clm. and (align\$4 displac\$5 orient\$4 orientation position\$4 location\$4 locat\$5).clm. and (method step).clm.	US-PGPUB; USPAT	OR	ON	2007/09/28 17:42
L6	0	("2004/0074603").URPN.	USPAT	OR	ON	2007/09/28 17:45
S1	0	(sens\$3 with compar\$3 with line with position\$4 with (wafer substrate workpiece semiconductor)) and (118/715-733.ccls. 156/345.\$ccls. 414/935-941.ccls.)	US-PGPUB; USPAT	OR	ON	2004/08/08 17:30
S2	3	(compar\$3 with line with position\$4 with (wafer substrate workpiece semiconductor) ) and (118/715-733.ccls. 156/345.\$ccls. 414/935-941.ccls.)	US-PGPUB; USPAT	OR	ON	2004/08/08 17:33
S3	206	(compar\$3 with line with position\$4 with (wafer substrate workpiece semiconductor) )	US-PGPUB; USPAT	OR	ON	2004/08/08 17:31
S4	4	(compar\$3 with line with position\$4 with (wafer substrate workpiece semiconductor)) same (transfer\$4 convey\$4 transport\$4)	US-PGPUB; USPAT	OR	ON	2004/08/08 17:33
S5	206	(compar\$3 with line with position\$4 with (wafer substrate workpiece semiconductor) )	US-PGPUB; USPAT	OR	ON	2004/08/08 17:35
S6	3	(compar\$3 with line with position\$4 with (wafer substrate workpiece semiconductor)) same (transfer\$4 convey\$4 transport\$4)	EPO; JPO; DERWENT	OR	ON	2004/08/08 17:33
S7	99	((sens\$3 detect\$3 measur\$3) with compar\$3 with line with position\$4 with (wafer substrate workpiece semiconductor) )	US-PGPUB; USPAT	OR	ON	2004/08/08 17:36
S8	105	((sens\$3 detect\$3 measur\$3) with compar\$3 with line with (align\$4 position\$4) with (wafer substrate workpiece semiconductor) )	US-PGPUB; USPAT	OR	ON	2004/08/08 17:39
S9	321	(414/936).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/08/08 17:39
S10	244	S9 and (sens\$3 detect\$3)	US-PGPUB; USPAT	OR	ON	2004/08/08 17:40
S11	199	S9 and ((sens\$3 detect\$3) with (position\$3 align\$3))	US-PGPUB; USPAT	OR	ON	2004/08/08 17:40

## EAST Search History

S12	23	S9 and ((sens\$3 detect\$3) with (position\$3 align\$3) with compar\$4)	US-PGPUB; USPAT	OR	ON	2004/08/08 17:40
S13	1819	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/28 17:38
S14	31	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and 156/345.24.ccls.	US-PGPUB; USPAT	OR	ON	2003/12/12 18:38
S15	322	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and ((position\$3 align\$4) with (detect\$3: sens\$3 monitor\$3 sens\$3))	US-PGPUB; USPAT	OR	ON	2003/12/12 18:39
S16	1757	(118/715-733.ccls. 156/345.\$ccls. 414/935-941.ccls.) and ((position\$3 align\$4) with (detect\$3 sens\$3 monitor\$3 sens\$3))	US-PGPUB; USPAT	OR	ON	2003/12/12 18:39
S17	43	(118/715-733.ccls. 156/345.\$ccls. 414/935-941.ccls.) and ((position\$3 align\$4) with (detect\$3 sens\$3 monitor\$3 sens\$3) with (inlet entry entrance))	US-PGPUB; USPAT	OR	ON	2003/12/12 18:40
S18	3	("5483138" or ("5917601" or ("6004047"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/12/18 18:25
S19	1	("5512320").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/12/18 18:42
S20	1827	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/12/18 18:43
S21	331	((118/719) or (414/939) or (156/345.31) or (156/345.32)). CCLS.) and ((position\$3 align\$3) with (sens\$3 detect\$3 monitor\$3 observ\$5))	US-PGPUB; USPAT	OR	ON	2003/12/18 19:36
S22	384	((156/345.13) or (156/345.15) or (156/345.24)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2003/12/18 18:50
S23	58	tamura-naoyuki.in.	US-PGPUB; USPAT	OR	ON	2005/04/16 20:08
S24	214	c23c016\$.ipc. and ((position\$3 align\$3) with (sens\$3 detect\$3 monitor\$3 observ\$5))	EPO; JPO; DERWENT	OR	ON	2003/12/18 19:36
S28	20	(US-20030023343-\$ or US-20030168173-\$ or US-20040074603-\$ or US-20040151574-\$).did. or (US-4507078-\$ or US-4618292-\$ or US-4643579-\$ or US-4654106-\$ or US-4819167-\$ or US-4836733-\$ or US-5452521-\$ or US-5483138-\$ or US-5512320-\$ or US-5814196-\$ or US-5917601-\$ or US-5980194-\$ or US-6166509-\$ or US-6368183-\$ or US-6370793-\$ or US-6553280-\$).did.	US-PGPUB; USPAT	OR	ON	2004/11/10 17:39
S29	65	tamura-naoyuki.in.	US-PGPUB; USPAT	OR	ON	2005/04/16 20:08
S30	2	10/218,406	US-PGPUB; USPAT	OR	ON	2005/10/17 16:00
S31	484	(414/805.ccls. 414/217.ccls.) and ((wafer substrate semiconductor workpiece) with (align\$4 orient\$4))	US-PGPUB; USPAT	OR	ON	2005/10/16 20:05
S32	74	(414/805.ccls. 414/217.ccls.) and ((wafer substrate semiconductor workpiece) with (align\$4 orient\$4) with (sens\$4 detect\$4 measur\$4 observ\$4))	US-PGPUB; USPAT	OR	ON	2005/10/16 20:05
S33	105	(414/805.ccls. 414/217.ccls.) and ((wafer substrate semiconductor workpiece) with (align\$4 orient\$4) with (sens\$4 detect\$4 measur\$4 observ\$4 control\$4))	US-PGPUB; USPAT	OR	ON	2005/10/16 20:05
S34	46	(414/805.ccls. 414/217.ccls.) and ((wafer substrate semiconductor workpiece) with (align\$4 orient\$4) with (sens\$4 detect\$4 measur\$4 observ\$4 control\$4) with (transfer\$4 translat\$4 convey\$4 mov\$4))	US-PGPUB; USPAT	OR	ON	2005/10/16 20:06

## EAST Search History

S35	5	("5706930").URPN.	USPAT	OR	ON	2005/10/16 20:15
S36	45	("3907439"   "3945505"   "4024944"   "4148344"   "4201378"   "4228886"   "4449885"   "4457664"   "4466073"   "4507078"   "4523985"   "4559451"   "4635373"   "4647266"   "4698511"   "4705951"   "4720635"   "4744713"   "4765793"   "4770590"   "4789294"   "4818169"   "4819167"   "4833790"   "4836733"   "4880348"   "4907035"   "5044752"   "5162642"   "5194743"   "5239182"   "5483138"   "5706201"   "5706930"   "5721607"   "5740062"   "5768125"   "5822213"   "5870488"   "5905850"   "5917601"   "5980194"   "5995234"   "6198976"   "6327517").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/16 20:16
S37	56	("5483138").URPN.	USPAT	OR	ON	2005/10/16 20:29
S38	1	("6198976").PN.	US-PGPUB; USPAT	OR	OFF	2005/10/17 16:00
S39	31	(US-20040151574-\$ or US-20030023343-\$ or US-20030168173-\$ or US-20040074603-\$).did. or (US-6327517-\$ or US-5740062-\$ or US-4457664-\$ or US-5512320-\$ or US-5483138-\$ or US-4507078-\$ or US-4654106-\$ or US-5452521-\$ or US-5814196-\$ or US-5980194-\$ or US-5917601-\$ or US-6368183-\$ or US-6370793-\$ or US-6553280-\$ or US-4819167-\$ or US-4643579-\$ or US-5340261-\$ or US-4836733-\$ or US-6875306-\$ or US-6166509-\$ or US-4618292-\$ or US-6719517-\$ or US-5905850-\$ or US-5706930-\$ or US-6900877-\$ or US-5904164-\$).did. or (US-6198976-\$).did.	US-PGPUB; USPAT	OR	ON	2006/03/31 19:31
S40	201	(workpiece wafer substrate semiconductor) same compar\$5 same image same (transfer\$4 convey\$4) same (align\$4 placement orientation orient\$4)	US-PGPUB; USPAT	OR	ON	2007/01/18 12:27
S41	443	(workpiece wafer substrate semiconductor) same compar\$5 same image same (transfer\$4 convey\$4 moving moved moveable movable transport\$4) same (align\$4 placement orientation orient\$4)	US-PGPUB; USPAT	OR	ON	2007/01/18 12:24
S42	293	(workpiece wafer substrate semiconductor) same (compar\$5 with image) same (transfer\$4 convey\$4 moving moved moveable movable transport\$4) same (align\$4 placement orientation orient\$4)	US-PGPUB; USPAT	OR	ON	2007/01/18 12:35
S43	40	(workpiece wafer substrate semiconductor) same (compar\$5 with image) same (transfer\$4 convey\$4 moving moved moveable movable transport\$4) same (align\$4 placement orientation orient\$4)	EPO; JPO; DERWENT	OR	ON	2007/01/18 14:01
S44	27	((workpiece wafer substrate semiconductor) same (compar\$5 with image) same (transfer\$4 convey\$4 moving moved moveable movable transport\$4) same (align\$4 placement orientation orient\$4)) and (vacuum with transfer with chamber)	US-PGPUB; USPAT	OR	ON	2007/01/18 12:57
S45	0	(156/345.31.ccls. 118/719.ccls. 156/345.32.ccls.) and ((compar\$5 with image) same (align\$4 placement orientation orient\$4))	US-PGPUB; USPAT	OR	ON	2007/01/18 13:31
S46	0	(156/345.31.ccls. 118/719.ccls. 156/345.32.ccls.) and ((compar\$5 same image) same (align\$4 placement orientation orient\$4)).	US-PGPUB; USPAT	OR	ON	2007/01/18 12:58
S47	0	(156/345.31.ccls. 118/719.ccls. 156/345.32.ccls.) and (compar\$5 same image same (align\$4 placement orientation orient\$4))	US-PGPUB; USPAT	OR	ON	2007/01/18 12:58
S48	23	(156/345.31.ccls. 118/719.ccls. 156/345.32.ccls.) and ( image same (align\$4 placement orientation orient\$4))	US-PGPUB; USPAT	OR	ON	2007/01/18 12:58
S49	11	("3968885"   "4108578"   "4781511"   "4811617"   "4951601"   "5020475"   "5076205"   "5288379"   "5310410"   "5807062"   "6085125").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/18 13:31

## EAST Search History

S50	14	(156/345.31.ccls. 118/719.ccls. 156/345.32.ccls.) and ((compar\$5 ) with (position\$4 align\$4 place\$4t orientation orient\$4) with (detect\$4 sens\$4 measur\$4 observ\$4))	US-PGPUB; USPAT	OR	ON	2007/01/18 13:54
S51	17	("3921032" "4010399" "4392085" "4547705" "4560908" "502 1714" "5432406" "5612597" "5932974" "6118227" "6348769"  "6724152" "6731075" "6806657").PN.	EPO; JPO; DERWENT	OR	ON	2007/01/18 15:36
S52	14	("3921032" "4010399" "4392085" "4547705" "4560908" "502 1714" "5432406" "5612597" "5932974" "6118227" "6348769"  "6724152" "6731075" "6806657").PN.	US-PGPUB; USPAT	OR	ON	2007/01/18 15:37
S53	29	("20020078770" "20020092369" "20020101508" "200300010 83" "20030055533" "20030198376" "20030202092" "2004003 9486" "20040101633" "20050021177" "20050153073" "48191 67" "5452521" "5483138" "5538385" "5844683" "5917601" " 5980194" "6002840" "6051113" "6198976" "6244121" "6275 748" "6275748" "6313596" "6366830" "6453214" "6468816" " 6618645" "6648730").PN.	US-PGPUB; USPAT	OR	ON	2007/01/18 15:37
S54	26	("5905850").URPN.	USPAT	OR	ON	2007/06/01 12:19
S55	69	("3972424"   "3986109"   "4158171"   "4457664"   "4646009"   "4692695"   "4724322"   "4746256"   "4752898"   "4770600"   "4813846"   "4819167"   "4846626"   "4860229"   "4880348"   "4881863"   "4887904"   "4892455"   "4895486"   "4897015"   "4910453"   "4931962"   "4955780"   "4958129"   "4980971"   "5030057"   "5054991"   "5102280"   "5102291"   "5193969"   "5194743"   "5238354"   "5261776"   "5265170"   "5332352"   "5340261"   "5365672"   "5386481"   "5405230"   "5452521"   "5456561"   "5466945"   "5511005"   "5513948"   "5520501"   "5540821"   "5557267"   "5563798"   "5564889"   "5642298"   "5655871"   "5668452"   "5691907"   "5740062"   "5741114"   "5743695"   "5746565"   "5818632"   "5822213"   "5831738"   "5851102"   "5870488"   "5905850"   "5943130"   "5944476"   "5980195"   "5990650"   "6078876"   "6085125"   "B1 4457664").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/01 12:22
S56	12	("5004399"   "5409348"   "5456561"   "5645391"   "5711646"   "5730574"   "5740059"   "5788477"   "5788868"   "5789890"   "5810935"   "5822498").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/01 12:29
S57	26	("5456561").URPN.	USPAT	OR	ON	2007/06/01 12:32
S58	24	("5789890").URPN.	USPAT	OR	ON	2007/06/01 12:37
S59	11	("5004399"   "5409348"   "5456561"   "5645391"   "5711646"   "5730574"   "5789890"   "5810935"   "5822498"   "6085125"   "6300644").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/01 13:06
S60	16	("4819167"   "4955780"   "5225691"   "5436721"   "5438418"   "5452521"   "5454170"   "5510892"   "5530550"   "5563798"   "5610102"   "5644400"   "5706201"   "6063196"   "6126380"   "6178361").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/01 13:22
S61	16	("4955780").URPN.	USPAT	OR	ON	2007/06/01 13:37
S62	13	("5238354"   "5456561"   "5513948"   "5535306"   "5611655"   "5695562"   "5740034"   "5905850"   "6085125"   "6105454"   "6162008"   "6270306"   "6313596").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/01 14:51
S63	19	("4356554"   "4362977"   "4642781"   "4702665"   "4710884"   "4725965"   "4753569"   "4763276"   "4806066"   "4819167"   "4831549"   "4852237"   "4908777"   "4945493"   "4951601"   "4980971"   "5005277"   "5162713"   "5177563").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/01 14:57
S64	22	("5740034").URPN.	USPAT	OR	ON	2007/06/01 15:17
S65	13	("5740059").URPN.	USPAT	OR	ON	2007/06/01 15:50
S66	8	("6405101").URPN.	USPAT	OR	ON	2007/06/01 16:34
S67	7	mooring.in. and lam.as.	US-PGPUB; USPAT	OR	ON	2007/06/01 16:34

## EAST Search History

S68	14	("4819167"   "4833790"   "4871955"   "4980626"   "5483138"   "5769952"   "5980194"   "6102164"   "6244121"   "6256555"   "6279724"   "6298280"   "6360144"   "6405101").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/01 16:36
S69	5	("6502054").URPN.	USPAT	OR	ON	2007/06/01 16:44
S70	1	("6690986").PN.	US-PGPUB; USPAT	OR	OFF	2007/06/01 16:44